

High Level Architecture Engineering Protofederation

Final AMG Briefing

by

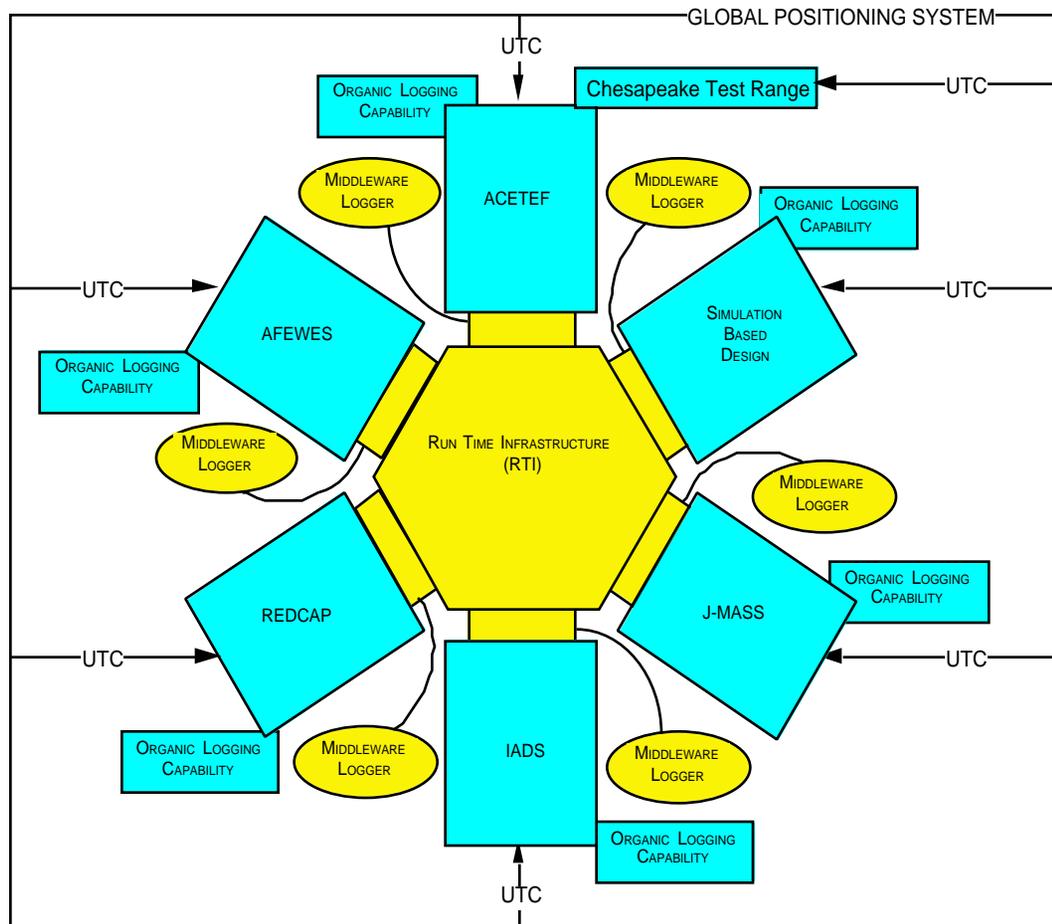
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The Engineering Protofederation



- **Mission:** Evaluate the High Level Architecture's suitability for support of detailed, high-fidelity models and distributed simulations in the context of a realistic engineering situation



The Engineering Protofederation



- **In-depth explorations of HLA's Impact on Wide-Area Communications**
- **Originators of the Federation Execution Development Process Chart**
- **In-depth explorations of HLA's Support for Subsystem-Level Engineering & Test**
- **Exploration of rapid "Per-Shot" validation of Threat Missile Engagements**
- **Originated and validated a Threat-HWIL Concept of Ops for Distributed Simulation**
- **Demonstrated Defense RDT&E's Ability to Support Simulation-Based Acquisition.**
- **Undoubtedly the most diverse federation of legacy systems ever to interoperate**



The Engineering Protofederation



- The Protofederation happiest to see the predicate calculus taken out of the Interface Spec.
- The Protofederation with the best RTI buddies
- Protofederation with the coolest logo
- The Protofederation which killed lollipop notation.
- The Protofederation with the most secrets
- The protofederation that liked the V0.1 RTI release best
- The Protofederation that invented the term “FOM-O-RAMA”
- Protofederation with the Noisiest Technical Lead
- Protofederation with the most entertaining briefs
- There was one more, but that was “briefed while Dana was out of the room.”



The Engineering Protofederation



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- Lessons Learned
 - Lack of Source Code leads to untraceable problems which can not be isolated to federate or RTI without rigorous, time-consuming, wasteful trial and error.
 - Poor Understanding of the RID Structure and Purpose can result in a useless FOM
 - HLA backlash is building and the naysayers have ammunition.
 - Actions
 - Build your own RTI, Insist on Source Code or wait until confidence in the RTI can be gained through other people's experience.
 - Analyze and fully understand the RTI's RID Structure BEFORE the first FOM meeting.
 - Identify undefined terms in Dr. Kaminski's directive and correct immediately (i.e. "simulation project", "simulation program", HLA Compliance). Put the word out that DMSO understands the significance and appropriateness of some "closed-game" simulations to which HLA doesn't apply.